

SHAKHLAMOV, V. A.

"Aseptic Inflammation in the Ovary of White Rats on Partial Bilateral  
Removal and Chronic Stimulation of the Cerebral Cortex," p. 200

from the book "Effect of Higher Divisions of the Nervous System on Processes  
on Inflammation and Regeneration," edited by V. G. Yeliseyev,  
Trudy 1-go Moskovskogo Ordena Lenina Meditsinskogo Instituta Imeni I. M. Sechenova  
Vol. 2, Moscow, 1957, 249 pp.

SHTAN'KO, I.G.; SHAKHLEVICH, V.M.; REMIZOVA, A.S.

Speeding up car processing in classification yards. Zhel.dor.transp.  
(MIRA 18:6)  
47 no.4:25-27 Ap '65.

1. Glavnyy inzh. stantsii Nizhnedneprovsk-Uzel (for Shtan'ko).
2. Nachal'nik proizvodstvenno-tekhnicheskogo otdela stantsii Nizhnedneprovsk-Uzel (for Shakhlevich).
3. Starshiy inzhener sluzhby dvizheniya Pridneprovskoy dorogi (for Remizova).

SHARILIN, V I

PHASE I BOOK EXPLOITATION

80V/5556

85

Moscow. Institut stali.

Novoye v teorii i praktike proizvodstva martenovskoy stali (New [Developments] in the Theory and Practice of Open-Hearth Steelmaking) Moscow, Metallurgizdat, 1961. 439 p. (Series: Trudy Mezhvuzovskogo nauchnogo soveshchaniya) 2,150 copies printed.

Sponsoring Agency: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya RSFSR. Moskovskiy institut stali imeni I. V. Stalina.

Eds.: M. A. Glinkov, Professor, Doctor of Technical Sciences, V. V. Kondakov, Professor, Doctor of Technical Sciences, V. A. Kudrin, Docent, Candidate of Technical Sciences, G. N. Oyks, Professor, Doctor of Technical Sciences, and V. I. Yavovskiy, Professor, Doctor of Technical Sciences; Ed.: Ye. A. Borko; Ed. of Publishing House: N. D. Gromov; Tech. Ed.: A. I. Karasev.

PURPOSE: This collection of articles is intended for members of scientific institutions, faculty members of schools of higher education, engineers concerned with metallurgical processes and physical chemistry, and students specializing in these fields.

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New [Developments] in the Theory (Cont.)

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COVERAGE: The collection contains papers reviewing the development of open-hearth steelmaking theory and practice. The papers, written by staff members of schools of higher education, scientific research institutes, and main laboratories of metallurgical plants, were presented and discussed at the Scientific Conference of Schools of Higher Education. The following topics are considered: the kinetics and mechanism of carbon oxidation; the process of slag formation in open-hearth furnaces using in the charge either ore-lime briquets or composite flux (the product of calcining the mixture of lime with bauxite); the behavior of hydrogen in the open-hearth bath; metal desulfurization processes; the control of the open-hearth thermal melting regime and its automation; heat-engineering problems in large-capacity furnaces; aerodynamic properties of fuel gases and their flow in the furnace combustion chamber; and the improvement of high-alloy steel quality through the utilization of vacuum and natural gases. The following persons took part in the discussion of the papers at the Conference: S.I. Filippov, V.A. Kudrin, M.A. Glinkov, R.P. Nam, V.I. Yavovskiy, O.N. Oyks and Ye. V. Chelishchev (Moscow Steel Institute); Ye. A. Kazachkov and A. S. Kharitonov (Zhdanov Metallurgical Institute); N.S. Mikhaylets (Institute of Chemical Metallurgy of the Siberian Branch of the Academy of Sciences USSR); A.I. Stroganov and D. Ya. Povolotskiy (Chelyabinsk Polytechnic Institute); P.V. Umrikhin (Ural Polytechnic Institute); I.I. Fomin (the Moscow "Serp i molot" Metallurgical Plant); V.A. Foklev (Central Asian Polytechnic Institute).

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New [Developments] in the Theory (Cont.)

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and M.I. Beylinov (Night School of the Dneprodzerzhinsk Metallurgical Institute).  
References follow some of the articles. There are 268 references, mostly Soviet.

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Yavoyevskiy, V. I. [Moskovskiy institut stali - Moscow Steel Institute].  
Principal Trends in the Development of Scientific Research in Steel  
Manufacturing

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Filippov, S. I. [Professor, Doctor of Technical Sciences, Moscow Steel  
Institute]. Regularity Patterns of the Kinetics of Carbon Oxidation  
in Metals With Low Carbon Content  
[V. I. Antosenko participated in the experiments.]

15

Levin, S. L. [Professor, Doctor of Technical Sciences, Dnepropetrovskiy  
metallurgicheskiy institut - Dnepropetrovsk Metallurgical Institute].

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New [Developments] in the Theory (Cont.)

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Gol'dfarb, E.M. [Candidate of Technical Sciences, Dnepropetrovsk Metallurgical Institute]. Introduction to the Similarity Theory of Open-Hearth Furnaces

237

Protopopov, V.S. [Engineer, Kuznetskiy metallurgicheskii kombinat - Kuznetsk Metallurgical Combine]. Special Features of the Operation of High-Capacity Open-Hearth Furnaces

249

Glinkov, G.M. [Candidate of Technical Sciences, Zhdanovskiy metallurgicheskii institut - Zhdanov Metallurgical Institute]. Heat-Engineering Problems of High-Capacity Open-Hearth Furnaces

253

Ivanov, N.I. [Docent, Candidate of Technical Sciences], V.F. Gazhur, and V.I. Shakhlin [Engineers], [Magnitogorskiy metallurgicheskii kombinat - Magnitogorsk Metallurgical Combine; Magnitogorskiy gorno-metallurgicheskii institut - Magnitogorsk Mining and Metallurgical Institute]. Theoretical Principles of the Unit-Block System in the Design of Open-Hearth Furnaces

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Card 9/14

IVANOV, N.I., kand.tekhn.nauk; KULAKOV, A.M., inzh.; ~~SHAKHLIN~~, V.I., inzh.;  
GAZHUR, F.G., inzh.; NADYRSHINA, L.S., inzh.; TVILINEV, F.Ya., inzh.

Flame stands for the investigation of thermal processes in furnaces.  
Stal' 22 no.8:759 Ag '62. (MIRA 15:7)

1. Magnitogorskiy metallurgicheskiy kombinat.  
(Metallurgical furnaces—Combustion)  
(Heat—Transmission)



IVANOV, N.I., kand.tekhn.nauk; SHAKHLIN, V.I., inzh.; SHUNIN, T.G., inzh.;  
TARASOV, A.F., inzh.

Using heat-resistant concrete in the construction of open-hearth  
and heating furnaces. Stal' 23 no.9:862 S '63. (MIRA 16:10)

1. Magnitogorskiy metallurgicheskiy kombinat.



SHAKHLIN, V.I.; SHUNIN, T.G.; TARASOV, A.F.; KULAKOV, A.M.; IVANOV, N.I.;  
NEKRASOV, K.D.; SALMANOV, G.D.

Using heat-resistant concrete in the elements of bricklaying of open-hearth furnaces. Ogneupory 28 no.8:364-367 '63. (MIRA 16:9)

1. Magnitogorskiy metallurgicheskiy kombinat (for Shakhlin, Shunin, Tarasov, Kulakov). 2. Magnitogorskiy gorno-metallurgicheskiy institut (for Ivanov). 3. Nauchno-issledovatel'skiy institut betona i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR (for Nekrasov, Salmanov).

SHAKHLIN, V.I.; TARASOV, A.F.; SALMANOV, G.D.

Testing refractory concrete blocks in soaking pit walls. Ognepory  
28 : no.9:397-400 '63. (MIRA 16:10)

1. Magnitogorskiy metallurgicheskiy kombinat (for Shakhlin, Tarasov).
2. Nauchno-issledovatel'skiy institut betona i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR (for Salmanov).

FREYDENBERG, A.S.; DIKSHEYN, Ye.I.; TRIFONOV, A.G.; ARTAMONOV, M.P.;  
TVOROGOV, A.R.; SHAKHLIN, V.I.; TARASOV, A.F.

Repair of tapping holes on open-hearth furnaces. Metallurg 9  
no.7:20-22 JI '64. (MIRA 17:8)

1. Magnitogorskiy metallurgicheskiy kombinat.

VINOKUR, Samuil Isaskovich; MOGILEVICH, A.; SHAKHMAGON, A.

[Control of trade unions over the application of the law  
abolishing taxes on wages] Kontrol' profsoiuzov za vypolne-  
niem zakona ob otmene nalogov s zarabotnoi platy. Moskva,  
Profizdat, 1961. 95 p. (Bibliotechka profsoiuznogo aktiv-  
sta, no.12) (MIRA 16:1)

(Taxation) (Trade unions)

DOLGOPOLOVA, Anna Sergeyevna; SHAKHMAGON, Andrey Iosifovich;  
MEDVEDEVA, L.V., red.; KOROBOVA, N.D., tekhn. red.

[Wages in enterprises of the food and fish industry] Op-  
lata truda na predpriatiakh pishchevoi i rybnoi pro-  
myshlennosti. Moskva, Profizdat, 1963, 287 p.

(MIRA 16:7)

(Wages--Food industry) (Wages--Fisheries)

PARSHIN, Vladimir Timofeyevich; SHAKHMAGON, Andrey Iosifovich;  
MAKAROVA, E.A., red.

[How the trade-union organization participates in working  
out and fulfilling a labor plan] Kak profsoiuznaia organi-  
zatsiia uchastvuet v razrabotke i vypolnenii plana po trudu.  
Moskva, Profizdat, 1964. 135 p. (MIRA 17:4)

15(6)

SOV/101-59-2-5/13

AUTHORS: Gershman, M.I., and Shakhmagon, N.V.

TITLE: A Study of the Sodium Fluosilicate Used in the Capacity of a Mineralizer in the Calcination of Cement Raw Mixtures

PERIODICAL: Tsement, 1959, Nr 2, pp 17-22 (USSR)

ABSTRACT: Cements now produced must contain a good deal of active minerals and a minimum quantity of loose calcium oxide. Calcination of clinker of such composition presents some difficulties and usually must be operated under increased temperatures. These difficulties may be levelled by application of mineralizers in the raw material mixture. The by-product from the superphosphate plants at the Urals, Southern regions and Kazakhstan, consisting almost entirely of  $\text{Na}_2\text{SiF}_6$ , can be successfully applied for the mineralization purposes. The Niitsement (State All-Union Scientific Research Institute of the Cement Industry) has studied the possibility of using sodium fluosilicate, barium sulfate, calcium sulfate, ferric oxide, and ferrous sulfate in the

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SOV/101-59-2-5/13

A Study of the Sodium Fluosilicate Used in the Capacity of a Mineralizer  
in the Calcination of Cement Raw Mixtures

capacity of mineralizers, the latter being a waste product of the fertilizer plants containing sodium fluosilicate combined with fluorine salts. Mineralizing action of these admixtures was compared with the action of fluorspar. Experiments performed at the Podol'skiy opytyny zavod (Podol'sk Experimental Plant) belonging to the State All-Union Scientific Research Institute of the Cement Industry, with the laboratory electric furnace, followed by experiments with 8 m and 16 m kilns, have proved that the mineralizing properties of sodium fluosilicate are superior to those of fluorspar. The addition of 1.2% of sodium fluosilicate favorably influenced conditions of the calcination process. The amount of loose calcium oxide in the clinker samples was found to be small. Its content was 0.34% against 1.68% found in the clinker calcinated without mineralizer. For verification purposes, samples of clinkers were extracted from the kilns during the calcination

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A Study of the Sodium Fluosilicate Used in the Capacity of a Mineralizer in the Calcination of Cement Raw Mixtures

process. Figure 3 and Figure 4 show the effect of the introduction into the mixture of sodium fluosilicate in the fluid and hard-material periods of the process. In the 8 m kiln, for calcination of the mixture with mineralizer, the temperature has dropped by 80 to 90°, against the temperature measured during the process without mineralizer. Comparative strength tests have proved, for cements obtained from ground clinker produced in 8 and 16 m kilns, with the addition of gypsum, that under compression, the strength was much the same for samples made of cement with or without mineralizer. As for the tensile tests, the strength of cement containing  $\text{Na}_2\text{SiF}_6$  as mineralizer was greater than that of the cement not containing sodium fluosilicate. Concluding, the authors state that sodium fluosilicate contributes to the activation of the calcination process of clinker. Introduction of 1.2% of  $\text{Na}_2\text{SiF}_6$  enables

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A Study of the Sodium Fluosilicate Used in the Capacity of a Mineralizer  
in the Calcination of Cement Raw Mixtures

to reduce the moisture of the slime by 8%, but it also  
may create a state of a temporary thickening of the slime.  
In view of such changeable action, depending upon the  
initial composition of the raw material mixture, cement  
plants must thoroughly consider the future effect of the  
introduction of this mineralizer into their raw material,  
prior to the calcination. There are 2 graphs and 5  
tables.

Card 4/4

BUDNIKOV, P.P.; SHAKHMAGON N.V., kand. tekhn. nauk; ENTIN, Z.B., kand.  
tekhn. nauk

Effect of sodium fluosilicate on the viscosity of the clinker  
liquid phase. TSement 30 no.1:6-8. Ja-F '64. (MIRA 17:8)

1. Chlen-korrespondent AN SSSR (for Budnikov).

SHAKHMAGON, N.V., inzh.; NIKOLAYCHIK, N.N., inzh.

Intensifying the process of clinker firing using sodium fluosilicate  
additives. Nauch. soob NIISemesta no.9:13-18 '60. (MIRA 14:5)  
(Sodium fluosilicates) (Cement clinkers)

ALESHINA, O.K., inzh.; KITSIS, S.B., inzh.; SHAKHMAGON, N.V., inzh.; ENTIN, Z.B., inzh.

Using sodium fluosilicate as a mineralizer at the Krichy Cement  
Factory. Nauch. soob. NIITsmenta no. 7:1-4 '60. (MIRA 14:5)  
(Sodium fluosilicates) (Cement clinkers)

BUTT, Yu.M.; SHAKHMAGON, N.V., inah.

Investigation of the mechanism of the mineralizing activity of sodium fluosilicate. Trudy NIITSement no.15:3-31 '61.

(MIRA 14:9)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Butt).)

(Sodium fluosilicate) (Cement clinkers)



YAMPOL'SKIY, Z.I.; SHAKHMALIYEV, E.M., red.; GUKASYAN, A., tekhn. red.

[Travelers' reports on Azerbaijan] Puteshestvenniki ob Azerbaidzhane. Pod red. E.M.Shakhmalieva. Baku. Vol. 1961. 497 p.  
(MIRA 14:8)

1. Akademiya nauk Azerbaidzhanskoy SSR, Baku. Institut istorii.  
(Azerbaijan--Description and travel)

SHAKHMALIYEV, G.M.; KHAIME, F.G.

Brake shoes developed by the Azerbaijan Petroleum Research  
Institute for the Exploitation of Petroleum. Azerb.neft.khoz.  
35 no.8:11-12 Ag '56. (MLRA 9:10)

(Oil wells--Equipment and supplies)

SHAKHMALIYEV, G.M.; LAZAREV, G.Ye.

New friction material for the draw works brake. Azerb.neft.khoz.  
35 no.9:10-11 S '56. (MLRA 9:12)  
(Oil well drilling--Equipment and supplies)

ALIYEV, T.M.; ALIZADE, G.A.; MELIK-SHAKHNAZAROV, A.M.; ~~SHAKHMALIYEV, G.M.~~

A general apparatus for studying the operation of drilling  
equipment. Azerb.neft.khoz. 36 no.3:21-23 Mr '57. (MLRA 10:5)  
(Oil wells--Equipment and supplies)

SHAKHMALIYEV, G.M.; GRUZINOV, Ya.A.

Efficient lowering of drill tool. Azerb. neft. khoz. 37 no.4:14-17  
Ap '58. (MIRA 11:8)

(Petroleum engineering)

SHAKHMALIYEV, G.M.; GRUZINOV, Ya.A.

Calculating the design load on the brake of a draw works. Azerb.  
neft. khoz. 38 no.2:19-20 F '59. (MIRA 12:5)  
(Cranes, derricks, etc.)

SHAKHMALIYEV, Gasan Mursalovich, dots., kand. tekhn. nauk; SHCHEDROV, V.S.,  
prof., doktor tekhn. nauk, red.; RASHEVSKAYA, T.A., red. izd-va

[Studying the performance of a mechanical brake on a drow-works and  
devising an efficient system of lowering a drill tool] Issledovanie  
raboty mekhanicheskogo tormoza burovoy lebedki i razrabotka ratsional'-  
nogo rezhima spуска buril'nogo instrumenta. Red. V.S. Shchedrov. Baku,  
Azerbaidzhasnkoe gos. izd-vo neft. i nauchno-tekhn. lit-ry, 1960.  
221 p. (MIRA 14:7)

(Oil well drilling) (Winches)



SHAKHMALIYEV, G.M.; GRUZINOV, Ya.A.

Automatic control of the lowering of drilling tools. Azerb. neft. khoz.  
39 no.11:22-25 N '60. (MIRA 13:12)  
(Boring machinery) (Automatic control)

SHAKHMALIYEV, G.M.

Efficient lowering of drilling tools. Neft. khoz. 39 no.7:15-19  
Jl '61. (MIRA 14:6)  
(Oil well drilling—Equipment and supplies)

SHAKHMALIYEV, G.M.; KOGAN, R.N.

Determination of the elements of a tachogram in efficient  
lowering of drilling tools. Neft. khoz. 40 no.1:17-21 Ja '62.  
(MIRA 15:2)

(Oil well drilling)  
(Tachometer)

SHAKHMALIYEV, G.M.

Hoisting operations in drilling extra deep wells. Azerb.neft.  
khoz. 41 no.3:13-16 Mr '62. (MIRA 15:8)  
(Oil well drilling)

SHAKHMALIYEV, G.M.; GRUZINOV, Ya.A.; KOGAN, R.N.

Efficient lowering of the drilling tool in the simultaneous  
operation of power and hydraulic brakes of draw works. Sbor.  
nauch.-tekhn. inform. Azerb. inst. nauch.-tekhn. inform. Ser.  
Neft. prom. no.4:15-32 '63. (MIRA 18:9)

SHAKHMALIYEV, G.M.; TAGIYEV, S.M.

Making more precise the calculation of the braking of a draw  
works. Mash. i neft. obor. no.6:3-7 '64. (MIRA 18:2)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut neftyanogo  
mashinostroyeniya.

SHAKHMALIYEV, G.M.; TAGIYEV, S.M.

Determining the actual area of the tangency of the pair,  
"metal-friction material," with temperatures up to 600° C.  
Dokl. AN Azerb. SSR 20 no.8:41-44 '64. (MIRA 17:12)

1. Institut razrabotki neftyanykh i gazovykh mestorozhdeniy  
AN AzerSSR.



L 3562-66 EWT(m)/EWP(w)/EPE(c)/EWP(l)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b)  
 ACCESSION NR: AT5022669 MJW/JD/DJ/GS UR/0000/65/000/000/0100/0103

AUTHOR: Shakhmaliyev, G. M.

TITLE: Investigation of the true contact area in friction couples at normal and high temperatures

SOURCE: AN SSSR. Nauchnyy sovet po treniyu i smazkam. Teoriya treniya i iznosa (Theory of friction and wear). Moscow, Izd-vo Nauka, 1965, 100-103

TOPIC TAGS: contact friction, friction coefficient, friction contact area/  
 FK 24A lubricant

ABSTRACT: The actual contact area in friction couples of steel 3 (6-9 class finish) and lubricant FK-24A was determined by the luminous paint method of S. M. Tagiyev (Lyuminestsentnyy metod opredeleniya fakticheskoy ploshchadi kasaniya. Za tekhnicheskii progress, 1963, No. 9) on 100, 400, and 900 mm<sup>2</sup> specimens at 4, 6, 8, and 10 kg/cm<sup>2</sup> loadings. It was found that the specific contact area  $\eta = A_r/A_a$  ( $A_r$  = contact area;  $A_a$  = nominal area) increased linearly with the nominal load P and increased strongly as the surface roughness H was decreased below 3 micron (was fairly independent for H > 3 micron). Representative values were  $\eta = 1.2-1.5$  linearly as P increased from 4-10 kg/cm<sup>2</sup> (H = 3.1 micron) and  
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ACCESSION NR: AT5022669

$\eta = 4.2-4.8$  for  $P = 4-10 \text{ kg/cm}^2$  ( $H = 1 \text{ micron}$ ), To determine the effects of higher temperatures (100-600C) on  $\eta$ , aluminum or silver plating methods (V. S. Tarasenko. Eksperimental'nyye metody opredeleniya ploshchadi fakticheskogo kontakta. Pribery i stendy. Ekspress informatsiya, VINITI, tema 11, 1961) were used with the same materials and over the same ranges of load. It was found that, at a constant load,  $\eta$  increased sharply with temperature until  $\approx 200C$  ( $\eta = 33, 42, 46, 48$  for  $P = 4, 6, 8, \text{ and } 10 \text{ kg/cm}^2$  respectively, class 5 finish) and then increased very lightly and became almost constant at  $\approx 600C$ . These results were confirmed by measurements of braking force as a function of temperature for a friction brake. Orig. art. has: 3 figures and 2 tables.

ASSOCIATION: Nauchnyy sovet po treniyu i smazkam, AN SSSR (Scientific Committee on Friction and Lubrication, AN SSSR)

SUBMITTED: 18 May 65

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NO REF SOV: 002

OTHER: 000

Card 2/2

ISMET, A.R.; MAMEDOVA, R.A.; SHAKHMALIYEV, R.N.

Gamma-ray anomalies occurring in Apsheron oil wells. Izv.vys.  
ucheb.zav.; neft' i gaz 4 no.7:23-27 '61. (MIRA 14:10)

1. Azerbaydzhanskiy institut nefti i khimii im. M.Azizbekova.  
(Apsheron Peninsula--Oil well logging, Radiation)

DZHALILOV, N.M.; TSYPIN, S.B.; SHAKHMALIYEV, R.N.; SANTUROVA, T.M.

Investigating the performance of bits and turbodrills in the  
Zyrya and Karadag areas. Sbor. nauch.-tekhn. inform. Azerb.  
inst. nauch.-tekhn. inform. Ser. Neft. prom. no.6:94-104 '63.  
(MIRA 18:9)

SHAKHMALIYEVA, Z.M.; ODINA, K.M.

Comparison of the morphological changes and antigen production in the lungs in influenzal infection; based on materials from legal medical autopsies and experiments. Sud.-med. ekspert. 4 no.3:26-32 J1-S '61. (MIRA 14:10)

1. Byuro sudebnomeditsinskoy ekspertizy (nachal'nik L.S.Veleisheva) Mosgorzdravotdela. (INFLUENZA) (ANTIGENS AND ANTIBODIES)

SHAKHMALIYEVA, Z.M.

Materials on the examination of the organs of a corpse in legal medicine; role of staphylococci and streptococci in certain infectious diseases. Sud.-med. ekspert. 5 no.1:25-27 Ja-Mr '62.  
(MIRA 15:4)

1. Byuro sudebnomeditsinskoy ekspertizy (nachal'nik L.S.Velisheva)  
Otdela zdravookhraneniya Moskovskogo gorodskogo Soveta deputatov  
trud'yashchikhsya.

(AUTOPSY) (STAPHYLOCOCCI) (STREPTOCOCCI)

SHAKIRMANDEKHOVA, N. E., Baglanly, I. L., and Leynaloova, Kh. K.

"Bleaching Properties of Binagadinks and Karachukhursk Clays"

Azerbaychan SSR Elmeler Akademiyanyyn m'ruzeleri, 9, No 7, 1953, 381-384

(Azerbaydzhani with Russian resume)

The best clays of the Apsheron Peninsula for bleaching oily distillates are clays from the Binagadinsk and Karachukhursk deposits. As adsorbents in the cleaning of oils they are not worse than gumbrin (a clay peculiar to Russia), but yield to gumbrin in the matter of speed of filtration and oil capacity. (RZhGeol, No 6, 1955)

SO: Sum-No 787, 12 Jan 56

SHAKHMAMEDOV, A.D.

System for paying the wages of superdeep prospect drilling  
crews. Neft. khoz. 42 no. 3:6-10 Mr '64. (MIRA 17:7)



SHAKHMAMEDOV, A.D.

Conditional factors in oil well drilling: a topic for discussion.  
Neft.khoz. 43 no.4:13-18 Ap '65. (MIRA 18:4)

SHAKHMAMEDOV, F., shofer 1-go klassa (g. Baku)

Traffic lights and mirrors. Za rul. 15 no.2:7 F '57. (MLRA 10:5)  
(Traffic regulations)

USSR/Farm Animals. Horses.

Q

Iss Jour: Ref Zhur-Biol., No 20, 1958, 92524.

Author : Shakhmardanov, E.I.

Inst : Moscow Veterinary Academy.

Title : Topography of the Lymph Nodes in the Heads of Horses.

Orig Pub: Tr. Mosk. vet. akad., 1957, 19, vyp. 2, ch. 1, 111-116.

Abstract: Using 26 horses of various ages, sexes and breeds, the author gives a short description of the external maxillary, superficial temporal, internal carotid, external carotid and general carotid cranial lymphatic nodes which have been described by him.

Card : 1/1

USDA/Farm Animals. Horses.

Q

Abstr Jour: Ref Zhur-Biol., No 20, 1958, 92523.

Author : Shakhmardanov, E..

Institution : Moscow Veterinary Academy.

Title : Deep Lymphatic Vessels of the Preosseous Layer in the Head of Horses and Their Connection with the Superficial Vessels.

Orig Pub: Tr. Mosk. vet. akad., 1957, 19, vyp. 2, ch. 1, 117-120.

Abstract: Deep lymphatic vessels form bundles (from 1 to 8) which accompany the corresponding arteries. Deep lymphatic vessels of the facial region of the head are not always accompanied by branches of the facial artery. Deep lymphatic vessels of the large musculus masseter are always accompanied by arteries: to every intraorganic artery there corresponds one deep lymphatic

Card : 1/2

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SHAKHMARDANOV, SH. and DOBROVODSKIY, A. (Makhachkalinskii Zooveterinary Technical School)

"Handbook on Pharmacology" [A review of the book, written by Professor P. G. Men'shakov, 4th edition, 1960, 279 pp. Sel'khozgiz, L.]

Veterinariya, Vol. 38, no. 7, July 1961, p. 90

SHAKHMARDANOV, Sh.M.

Balance system of telemetering pressure on semiconductor elements for oil and gas fields. Izv. vys. ucheb. zav.; neft' i gaz 4 no.5: 87-94 '61. (MIRA 15:2)

1. Azerbaydzhanskiy institut nefti i khimii im. M.Azizbekova.  
(Telemetering) (Oil fields--Equipment and supplies)

L 13614-65  
ACCESSION NR: AP4046788

S/0115/64/000/008/0034/0036

AUTHOR: Melik-Shakhnazarov, A. M.; Shayn, I. L.; Shakhmardanov, Sh. M.

TITLE: Automatic a-c compensator with an astatic-static balance

SOURCE: Izmeritel'naya tekhnika, no. 8, 1964, 34-36

TOPIC TAGS: AC compensator, single rheochord compensator

ABSTRACT: A new automatic single-rheochord a-c compensator is described. The compensator permits measuring both components of the voltage alternatively by using one balancing channel (one electronic amplifier, one final element, one readout). High accuracy is attained through simultaneous compensation of both components of the measurand, one of them being compensated astatically by means of the actuator motor and the rheochord, and the other by means of a negative feedback taken from a preamplifier. The voltage component measured on the rheochord scale is noted, and then the phases of compensating and

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ACCESSION NR: AP4046788

reference voltages of the balancing channel are shifted by  $90^\circ$ , which permits measuring the second voltage component. An experimental model had a range of 50 mv, a balance-channel sensitivity of 10 microv, an error due to the second-channel interference of 0.04%, and a total error of 0.3%. Orig. art. has: 2 figures and 11 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EE

NO REF SOV: 005

OTHER: 000

Card 2/2



MEL'NIKOV, A.G.; SHAKHMARDANOV, Ja.M.; CHUKIN, V.I.

Investigating a laterologging apparatus with seven-electrode  
sonde. (sv.vys.nachab.zuv.) neft' i gas no.4:89-93 '84.  
(MIRA 17:5)

1. Azerbaydzanskiy institut nefti i khimii imeni M.Azizbekova,  
i Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh  
metodov razvedki.

SHAKHMARDANOV, Z. A. Cand Vet Sci -- (diss) *\* Paths of the outflow of lymph*  
*"Efferent-lymphatic*  
*vessels coming from the bone plate*  
*of the head of a horse and their topography."*  
Mos, 1958. 16 pp. ( Mos Vet Acad Min, Agr USSR). 140 copies.  
(KL, 8-57, 107)

-50-

MYAM, E.M. [Nolan, E.]; SAPOGOV, A.G.; SAPAROV, S.; SHAKHMARDANOV, Z.A.,  
kand.veter.nauk; GRITSENYUK, N.

Throughout the Soviet Union. Veterinariia 37 no.1:94-96 Ja '60.  
(MIRA 16:6)  
(Veterinary medicine) (Kovalev, Saveli Leonovich, 1911-1959)

SHAKHMARDANOV, Z.A., kand.veterin.nauk

Controlling the sterility of sheep in the Daghestan A.S.S.R.  
Veterinariia 41 no.8:S4 Ag '64.

(MIRA 18:4)

1. Dagestanskaya nauchno-issledovatel'skaya veterinarnaya stantsiya.

1. Glavnyy veterinarnyy vrach Buzul'skoy stantsii po hor'kim  
boleznyam chivochnykh, Buzul'skaya ASSR (Soyuz Karimov).

1. Glavnyy veterinarnyy vrach Buzul'skoy stantsii po hor'kim  
boleznyam chivochnykh, Buzul'skaya ASSR (Soyuz Karimov).

GADZHIYEV, S.M., otv. red.; ALIVERDIYEV, A.A., doktor biol. nauk, red.; PLEKHANOV, N.I., kand. biol. nauk, red.; RUKHLYADEV, D.P., kand. veter. nauk, red.; SHAKHMARDANOV, Z.A., kand. veter. nauk, red.; EMIRBEKOV, E.Z., kand. biol. nauk, red.

[Problems of physiology, biochemistry, zoology and parasitology; collection of papers of the Departments of Zoology and Organic and Biological Chemistry] Voprosy fiziologii, biokhimii, zoologii i parazitologii; sbornik nauchnykh soobshchenii kafedry zoologii i kafedry organicheskoi i biologicheskoi khimii. Makhachkala, Dagestanskoe knizhnoe izdvo, 1965. 168 p. (MIRA 19:1)

1. Makhach-Kala. Dagestanskiy gosudarstvennyy universitet.

SHAKHAROV, A.

3283. THE OIL AND GAS INDUSTRY IN THE SIXTH FIVE YEAR PLAN, Akhmedin, P.  
and Shakhmatov, A. (Plan. Khoz (Planned Econ., Moscow), 1956, 3), 31-44;  
title in Gaz. Prom. (Gas Ind., Moscow), Nov. 1956, 39).

4 2  
JMB  
mye

PIN'ZHAKOV, A. (Perm'); SHAKHMATOV, A. (Perm')

Discovering new raw materials. Prom. koop. 12 no.8:29-30 Ag '58.  
(MIRA 11:9)

1. Predsedatel' pravleniya arteli imeni 32-y godovshchiny Oktyabrya  
(for Pin'zhakov). 2. Rukovoditel' planovoy gruppy arteli imeni 32-y  
godovshchiny Oktyabrya (for Shakhmatov).  
(Waste products)



SHAKHMATOV, G.; RECHIN, S.

Radio communication between dispatchers and conductors of electric locomotives.

P. 6. (ZELEZNICAR) (Praha, Czechoslovakia) No. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

SHAKMATOV, G.A.

We are improving work with efficiency experts. Avtom.  
telem.i sviaz' 4 no.6:33 Je '60. (MIRA 13:7)

1. Nachal'nik sluzhby signalizatsii i svyazi Omskoy dorogi.  
(Railroads--Management)

SHAKHMATOV, G.A.

In the lead. Avtom.telem. i sviaz' 4 no.11:17-19 N '60.  
(MIRA 13:11)

1. Nachal'nik sluzhby signalizatsii i svyazi Omskoy dorogi.  
(Makushino--Railroads--Employees)

SHAKHMATOV, G.A.

We are improving techniques in testing devices. Avtom., telem.i  
sviaz' 7 no.3:22-25 Mr '63. (MIRA 16:2)

1. Nachal'nik sluzhby signalizatsii i svyazi Zapadno-Sibirskoy  
dorogi.

(Railroads—Electric equipment)

SHAKHMATOV, G. A., inzh. (Novosibirsk)

Automatic stops in high speed traffic. Zhel. dor. transp.  
45 no.1:70-73 Ja '63. (MIRA 16:4)

1. Nachal'nik sluzhby signalizatsii i svyazi Zapadno-Sibirskoy  
dorogi.

(Railroads—Automatic train control)

USSR/Diseases of Farm Animals - Diseases Caused by Protozoa.

R-3

Abs Jour : Ref Zhur - Biol., No 10, 1958, 45521

Author : Shakhmatov, G.N.

Inst :

Title : Prophylaxis and Treatment of Hemosporidiosis in Cattle  
with a Specific Anti-Hemosporidiosis Hyperimmune Serum.

Orig Pub : Khodzhagiyl kishloxi Tadzhikiston, 1957, No 6, 49-52;  
S. Kh. Tadzhikistana, 1957, No 6, 40-43.

Abstract : The hyperimmune serum was obtained from animals hyperimmu-  
nized with increasing doses of defibrinated blood taken  
from the cattle affected with mixed forms of hemosporidio-  
sis. The animals affected with piroplasmosis, fransail-  
lesis [sic] and theleriasis, treated with this serum  
in the initial stage of disease, recovered in 90% of cases.  
The use of hyperimmune serum for prophylaxis, together  
with simultaneous injection of the virulent blood, has  
also produced positive results.

Card 1/1

p 23

ANTONYAN, Aram Isaakovich; SHAKHMATOV, Maksim Anan'yevich;  
TITOV, V.V., kand. tekhn. nauk, retsenzent; KLEYMAN,  
L.I., inzh., red.; ZHITNIKOVA, O.S., tekhn. red.

[Installation of hydrogen-cooled turbogenerators] Montazh  
turbogeneratorov s vodorodnym okhlazhdeniem. Moskva, Gos-  
energoizdat, 1963. 207 p. (MIRA 17:3)

SHAKHMATOV, M.A., inzh.; CHERNUKHIN, A.V., inzh.

Special features in the installation and regulation of  
primary generators with water and hydrogen cooling.  
Elek. sta. 35 no. 4:41-44 Ap '64. (MIRA 17:7)



SHAKHATOV, M. M.

"The Effect of Antireticulosis Cytotoxic Serum (ATSS) /ACS/ on  
Some Indicators of the Metabolism of Healthy Sheep and Sheep Suffering  
From Pneumonia." Cand Vet Sci, Alma-Ata Zooveterinary Inst, Min  
Higher Education USSR, Alma-Ata. 1955. (KL, No 10, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical  
Dissertations Defended at USSR Higher Educational Institutions (15)

Card 1/1

USSR / Farm Animals. Small Horned Stock.

Q-2

Abs Jour: Ref Zhur-Biol., No 23, 1958, 105673.

Author : Shakhmatov, M. A.  
Inst : Institute of Experimental Biology, AS Kazakh SSR.  
Title : On the Problem of the Effect of "ACS" on the  
Metabolism Indexes of Healthy Sheep.

Orig Pub: Tr. In-ta eksper. biol. AN KazSSR, 1958, 4,  
106-109.

Abstract: The subcutaneous introduction of antitreticular  
cytotoxic serum (ACS) to (20 head of) sheep in  
a dose of 0.3 titer unit per 1 kg. of live weight  
(ACS titer 1 : 400) altered the physicomorpho-  
logical composition of the blood of these sheep.  
There occurred an increase in the quantity of Hb,  
erythrocytes, leucocytes, reserve alkalinity,

Card 1/2

USSR / Farm Animals. Small Horned Stock.

Q-2

Abs Jour: Ref Zhur-Biol., No 23, 1958, 103673.

Abstract: general and restored blood glutathione, residual  
nitrogen of the serum, a decrease in the per-  
centage of the content of general protein and  
globulins, and an increase in the quantity of  
albumins in the serum.

BUCHNEV, K.N., prof.; SHAKHMATOV, M.M., kand. veterinarnykh nauk;  
TITOV, V.L., nauchnyy sotrudnik; MEN'SHIKOV, L.F., nauchnyy  
sotrudnik; KRIVENKO, O.P., vrach-laborant; VOVK, V.I., vrach-  
laborant; LAISHEVA, M.M., vrach-laborant; POLUBOYAROVA,  
G.V., vrach-laborant

Diagnosis of rabies by precipitation reaction in agar gel.  
Veterinariia 40 no.3:66-70 Mr '63. (MIRA 17:1)

1. Alma-Atinskiy zooveterinarnyy institut (for Buchnev).
2. Laboratoriya virusologii nauchno-issledovatel'skogo  
veterinarnogo instituta Kazakhskoy akademii sel'skokhozyayst-  
vennykh nauk (for all except Buchnev).

SOV/124-58-8-8795

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 67 (USSR)

AUTHOR: Shakhmatov, M.P.

TITLE: Investigating the Flow in Bottom Races (Issledovaniye techeniy v donnykh lotkakh)

PERIODICAL: Uch. zap. fiz.-matem. fak. Kirg. un-t, 1957, Nr 4, part 1, pp 3-14

ABSTRACT: The author examines the flow that develops in a bottom race and in a penstock-tunnel. Experiments designed to test the author's theory of the velocity distribution in bottom races were conducted at the laboratory of the Physics and Mathematics Department of Kirghiz University, where a glass race was used, and on the irrigation system of a collective farm. Along the entire width of the main channel measurements were made of the thickness of the bottom layers of water in that channel that were being drawn into the bottom races; these were the basic measurements. An effort was made to ascertain the shape that a race must have, 1) when the bottom layer of main-channel water that it draws in is to maintain a uniform width along the entire width of the channel, and 2) when a

Card 1/2

SOV 124-38-5-8795

Investigating the Flow in Bottom Races

nonuniform entrainment of main-channel water by an already built race is to be corrected, i.e., if its water-entrainment contour is to be evened out. The author discusses measures to prevent the silting up of races of uniform-entrainment design. Bibliography: 6 references.

A.M. Latyshenko

Card 2, 2

SOV/124-58-8-8796

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 67 (USSR)

AUTHOR: Shakhmatov, M.P.

TITLE: The Design of Bottom Races Intended to Cleanse Channels of Alluvial Deposits (Konstruirovaniye donnykh lotkov dlya ochistki kanalov ot vlekomykh nanosov)

PERIODICAL: Uch. zap. fiz.-matem. fak. Kirg. un-t, 1957, Nr 4, part 1, pp 15-22

ABSTRACT: Based on premises set forth in a preceding paper of the author's (see RZhMekh, 1958, Nr 8, abstract 8795), recommendations are given here for the calculation and design of bottom races. Given also are formulae for calculating the profile of a variable-height sill, and the author offers two numerical examples which include the calculation and plotting of the sill profile and of the upper cover of the glory-hole discharge conduit.

A.M. Latyshenkov

Card 1/1

SHAKHMATOV, N. F., Cand Med Sci -- (diss) "Sleep  
Disturbances in the Clinic ~~of~~ <sup>value for</sup> Therapy of Old-Age  
psychoses and Their ~~Role~~ <sup>value for</sup> in Diagnosis." Mos, 1958.

11 pp (Second Mos ~~Hospital~~ State Med Inst im  
N. I. Pirogov). 220 copies (KL 40-58, 115)

SHAKHMATOV, N.F. (MIRA)

Psychiatric service in the Far East in the pre-revolution period.  
Trudy Gos. nauch.-issl. inst. psikh. 400190-296 '63  
(MIRA 1787)



SHAKHMATOV, N.F. (Moskva)

Possible methods of the application of cybernetic principles  
in psychiatry. Zhur. nev. i psikh. 64 no.3:459-464 '64.  
(MIRA 17:5)

SHAKHMATOV, S.S., gornyy inzh.; USACHEV, P.A., gornyy inzh.; YEFREMOV, A.G.,  
gornyy inzh.; ZELENOV, P.I., gornyy inzh.; BERDICHEVSKIY, R.I., gornyy  
inzh.

Using flotation and settling for dressing nonmagnetic ores. Gor. zhur.  
no.7:60-62 JI '64. (MIRA 17:10)

1. Kol'skiy filial AN SSSR (for Shakhmatov, Usachev, Yefremov). 2.  
Olenegorskiy gornoobogatitel'nyy kombinat (for Zelenov, Berdichevskiy).

PEARSON, J.M.; DEBENIGNO, S.A.

Age of notation (gigging in ore dressing. T5vet. met. 38 no.4:9-14  
(MIRA 18:5)  
sp '05.

ACC NR: AP6021563

(A)

SOURCE CODE: UR/0416/66/000/003/0070/0072

AUTHOR: Nensberg, Ye. (Docent, Candidate of military sciences, Colonel); Shakhmatov, V.  
(Docent, Candidate of military sciences, Colonel)

ORG: None

TITLE: Railway development in friendly countries

SOURCE: Tyl 1 snabzheniye sovetskikh vooruzhennykh sil, no. 3, 1966, 70-72

TOPIC TAGS: railway transportation, railway equipment

ABSTRACT: The international coordination of railway transportation traffic in the socialistic countries belonging to the Council for Mutual Economic Aid (SEV) is discussed. It is stressed that a special SEV Transportation Commission is responsible for planning and establishing guidelines for various railway transportation improvements. The recommended and adopted plans are coordinated and developed by the Railroad Cooperation Organization (OSZhD). Besides the SEV members, this Organization includes Red China, North Korea, and North Vietnam, while Yugoslavia and Cuba participate as observers. In general, the SSSR railway systems are more developed and better equipped than the railroad networks of the other SEV member-countries. In order to improve the traffic conditions in these countries, a general reconstruction of their trunk lines has been recommended including a wider use of electric and diesel modes of traction. In this connection, it is estimated that the railroad electrification in Poland will be spread over 4000 km in 1970

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ACC NR: AP6021563

and 5800 km in 1975. The remaining lines will be transferred to diesel traction. A similar progress will be made in Hungary and Romania. It is planned that in 1970 about 90% of the Romanian railroads will operate on electric or diesel power. The production of electric and diesel locomotives will be increased including Polish electric locomotives designed for a 2500-ton tractive effort and the Romanian ones of 4000 and 6000 hp. The progress in railway traffic between the Soviet Union and its European neighbors is impeded by the difference between the Soviet and European standard gages. Various improvements to facilitate the unloading operations at the border stations are mentioned. The use of standard signal equipment, brake systems, wheels, bearings and other parts is planned and recommended. The orders passed by the Soviet Union to Czechoslovakia, Poland, Hungary and East Germany for various locomotives, cars and other equipment are also mentioned. Various aspects of the joint effort in planning, research and development are briefly reviewed.

SUB CODE: 13/ SUBM DATE: None

Cord 2/2

KOVRIZHIN, A.K., inzh.; SHAKHMATOV, V.F., inzh.

Upraise chamber and pillar system with roof bolting for mining  
thick seams at the Kuznetsk Basin "Ziminka 3-4" mine. Izv.  
vys.ucheb.zav.; gor.zhur. no.9:3-7 '58. (MIRA 12:6)

1. Tomskiy politekhnicheskii institut.  
(Kuznetsk Basin--Coal mines and mining)  
(Mine roof bolting)

SAPARGALIYEV, G.S., kand. yurid.nauk; PAL'GOV, N.N., akad.; BOGATYREV, A.S.;  
AFANAS'YEV, A.V., prof.; BYKOV, B.A.; SHAKHMATOV, V.F., kand. istor.  
nauk; POKROVSKIY, S.N., akad.; SAVOS'KO, V.K., kand. istor. nauk;  
NUSUPBEKOV, A.N., kand. istor. nauk; BAISHEV, S.B., akad.; GOROKH-  
VODATSKIY, I.S., kand. istor. nauk; AKHMETOV, A., kand. istor. nauk;  
RAKHIMOV, A., kand. istor. nauk; PIVEN', N.F.; CHULANOV, G.Ch., doktor  
ekonom. nauk; BOROVSKIY, V.A., kand. ekonom. nauk; SYDYKOV, A.S., kand.  
pedagog. nauk; ZHANGEL'DIN, T., kand. filos. nauk; KARASAYEV, L.K.;  
KANAPIN, A.K., kand. istor. nauk; BELENOV, M.D., kand. ekonom. nauk;  
KARYNBAYEV, S.R., kand. med. nauk; AKHMETOV, K.A.; SMIRNOVA, N.S.,  
doktor filolog.nauk; SIL'CHENKO, M.S., doktor filolog. nauk; YERZA-  
KOVICH, B.G., kand. iskusstvovedcheskikh nauk; RYBAKOVA, N.; MUKHTA-  
ROV, A.I.; BOGATENKOVA, L.I.; KUNDAKBAYEV, B.; SIRANOV, K.S.; SHVYD-  
KO, Z.A., red.; MAMTSOVA, L.B., red.; ZLOBIN, M.V., tekhn. red.

[The Soviet Kazakh Socialist Republic] Kazakhskaya Sovetskaya So-  
tsialisticheskaya Respublika. Alma-Ata, Kazakhskoe gos. izd-vo,  
1960. 477 p. (MIRA 14:6)

1. Akademiya nauk Kaz.SSR (for Pal'gov, Pokrovskiy, Baishev)
2. Chlen-korrespondent Akademii nauk KazSSR (for Bykov, Smirnova,  
Sil'chenko)

(Kazakhstan)

BOLKHOVITINOVA, Ye.N.; SHAKHMATOV, V.G.

Hard alloy dental drills. Med. prom. 14 no.7:50-54 Je '60.

(MIRA 13:8)

1. Nauchno-issledovatel'skiy institut eksperimental'noy khirurgicheskoy apparatury i instrumentov.

(DENTAL INSTRUMENTS AND APPARATUS)



BOLKHOVITINOVA, Ye.N.; SHAKHMATOV, V.G.

Use of metals in surgery. Med. prom. 15 no.6:7-11 Je '61.  
(MIRA 15:3)

1. Nauchno-issledovatel'skiy institut eksperimental'noy  
khirurgicheskoy apparatury i instrumentov.  
(METALS--THERAPEUTIC USE)  
(SURGERY--EQUIPMENT AND SUPPLIES)

*SACHMATOV, V.G.*  
BOLCHOVITINOVA, E.N. [Bolkhovitina, Ye.N.]; SACHMATOV, V.G. [Shakhmatov,  
V.G.]

Use of metals in surgery. Jemna mech opt 7 no.6:181-183  
Je '62.

SHAKHMATOV, V.G.

Construction of hard-alloy dental drills and the technology of  
their preparation. Med.prom. 16 no.6:20-24 J1 '62.

(MIRA 15:12)

1. Nauchno-issledovatel'skiy institut eksperimental'noy  
khirurgicheskoy apparatury i instrumentov.

(DENTAL INSTRUMENTS AND APPARATUS)

BELAVIN, N.E.; KLEINA, Ye.K.; SHAKIMATOV, V.G.

Study of new corrosion-resistant alloys for dental prosthesis.  
Med. prom. 17.no.4:51-54 Ap '63. (MIRA 16:7)

1. Nauchno-issledovatel'skiy institut eksperimental'noy khirurgi-  
cheskoy apparatury i instrumentov.  
(DENTAL PROSTHESIS) (CORROSION-RESISTANT MATERIALS)

L 38543-66 ENT(m)/ENP(w)/ENP(v)/T/ENP(t)/ETI/ENP(k) IJP(c) JD/HM/HW  
ACC NR: AT6012411 SOURCE CODE: UR/0000/65/000/000/0325/0328

AUTHORS: Belavin, N. F.; Shakhmatov, V. G.

ORG: none

TITLE: Investigation of the possible use of titanium alloys for surgical instruments, devices, and methods of connecting tissues

SOURCE: Soveshchaniye po metallokhimii, metallovedeniyu i primeneniyu titana i yego splavov, 6th. Novyye issledovaniya titanovykh splavov (New research on titanium alloys); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1965, 325-328

TOPIC TAGS: medical equipment, titanium alloy, stainless steel, metal property, bending strength /VT5-1 titanium alloy, OT4-1 titanium alloy, VT14 titanium alloy, 3Kh13 stainless steel, Kh18N9T stainless steel, IMPl-A titanium alloy

ABSTRACT: The possible use of titanium alloys for surgical instruments and devices was considered qualitatively and to some extent experimentally. The most desirable features of a metal for this application are high strength (primarily in bending), resistance to wear, and resistance to corrosion. Titanium alloys IMPl-A, VT5-1, OT4-1, and VT14 were investigated in these three categories and compared with stainless steels 3Kh13 (strength) and Kh18N9T (corrosion resistance). Alloys VT5-1, OT4-1, and VT14 were found to have approximately the same strength in bending and, although lower than 3Kh13, were found acceptable. Wear characteristics of the

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L 38543-66 "APPROVED FOR RELEASE: 07/20/2001" CIA-RDP86-00513R001548530004-1

ACC NR: AT6012411

titanium alloys were tested and were found to be 0.35, 0.96, 0.22, and 1.2 (mm/half hour) respectively for VT5-1, OT4-1, VT14, and IMPl-A (unplated) and 0.015, 0.02, 0.009, and 0.03 with nickel-phosphorus plating. After 48 hours submersion in 10% iodine solution, alloy IMPl-A showed a very small amount of point corrosion while the other alloys were practically unaffected. It was also found that the alloys could be successfully soft-soldered to each other and to steel 3Kh13. It is concluded that these alloys could be used for surgical instruments and devices. Orig. art. has: 2 figures and 1 table.

SUB CODE: 11, 13, 06/ SUBM DATE: 02Dec65/ ORIG REF: 003/ OTH REF: 001

Card 2/2

7

B

Hard Soldering of Thin Brass Sheets Using a Spot-Welding Machine. (In Russian.) A. S. Rudakov and V. M. Shakhmatov, Aerogennye Delo (Welding), Dec. 1947, p. 21-27.

Describes and diagrams method for adaptation of the equipment to above job.

SHAKHMATOV V.M.

USSR.

L1003\* Investigation of the Contact Butt-Welding of Cast Iron. Issledovanie kontaktnoi stykovoï svarki chuguna. (Russian.) L.B. Patskevich and V.M. Shakhmatov. Svarochnos Proizvodstvo, 1955, no. 5, May, p. 1-4.  
Flash welding, with and without preheating, according to several procedures. Micro-structure (martensitic-austenitic, perlitic, etc.) in and beyond weld area; inclusions. Mechanical properties. Tables, micrographs, graph.

M 62

Chelyabinsk Polytech. Inst.

SHAKHMATOV, V.M.  
PATSKEVICH, I.R., kandidat tekhnicheskikh nauk, SHAKHMATOV, V.M., inzhener.

Resistance butt welding of cast iron. Vop.svar.proizv. no.7:5-  
13 '55. (MIRA 10:3)  
(Cast iron--Welding) (Electric welding)



PATSKEVICH, I.R., kandidat tekhnicheskikh nauk; KLOCHKOV, A.I.; BEREZKIN,  
P.N., inzhener; BAUTINA, V.A.; SHAKHMATOV, V.M.

Investigating the causes of paint deterioration in the vicinity of  
welds. Vop.svar.proizv. no.7:82-93. '55. (MIRA 10:3)  
(Paint) (Tractors--Welding)

BAKSHI, O.A., kand. tekhn. nauk; RUDAKOV, A.S., dots.; SHAKHMATOV, V.M., inzh.

Stability of welding deformations. [Sbor st.] CHIPI no.16:5-13  
'59. (MIRA 12:9)

(Welding--Testing) (Strains and stresses)

PATSKEVICH, I.R., kand. tekhn. nauk; SHAKHMATOV, V.M., inzh.

Investigating the resistance butt welding of cast iron with steel.

[Sbor. st.] CHIPI no.16:56-67 '59. (MIRA 12:9)

(Electric welding--Testing) (Cast iron--Welding)

(Steel--Welding)

RUDAKOV, A.S., dots.; SHAKHMATOV, V.M., 11-h.

Butt welding of heat and electrical resistance alloy strips.  
[Sbor. st.] CHIPI no.16:68-79 '59. (MIRA 12:9)  
(Heat-resistant alloys--Welding)  
(Chromium-nickel alloys--Testing)

SHAKHMATOV, Vasilii Mikhaylovich; MASLOV, Yu.A., inzh., red.; DUGINA, N.A., tekhn. red.

[Welding of cast iron] Svarka chuguna. Moskva, Gos. nauchno-  
tekhn. izd-vo mashinostroit. lit-ry, 1960. 32 p. (Nauchno-  
populiarnaya biblioteka rabochego-svarshchika, no. 16)

(MIRA 14:5)

(Cast iron—Welding)

SHAKHMATOV, V.M., kand.tekhn.nauk

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1. Chelyabinskiy politekhnicheskii institut.

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